

CONTACT INFORMATION	Graduate Teaching Assistant University of Nebraska-Lincoln Email: <a href="mailto:bhuenemann3@nebraska.edu">bhuenemann3@nebraska.edu</a> Office: Avery 320	
EDUCATION	<b>Ph.D. Student in Mathematics</b> , University of Nebraska, Lincoln Advised by Alexandra Seceleanu <b>M.S. in Mathematics</b> , University of Nebraska, Lincoln <b>B.S. in Mathematics</b> , University of Utah <b>B.S. in Computer Science with Honors</b> , University of Utah	2023 – Current  2023 - 2024 2019 - 2023 2019 - 2023
PUBLICATIONS	<b>Comparison of atlas-based and neural-network-based semantic segmentation for DENSE MRI images</b> with Emma Hart and Elle Buser. <i>SIAM Undergraduate Research Online</i> , Vol. 15 (2022).	
IN PREPARATION	<b>On <math>\chi</math>-slice pretzel links</b> with Sophia Fanelle, Evan Huang, Weizhe Shen, Jonathan Simone, and Hannah Turner.	
RESEARCH TALKS AND POSTERS	<i>Buchsbaum-Eisenbud Theorem</i> Commutative Algebra Reading Seminar, University of Nebraska-Lincoln <i>Adding an Integer Linear Programming solver to SweetPea</i> Senior thesis research results, University of Utah <i>On <math>\chi</math>-slice pretzel links</i> Gulf Coast Undergraduate Research Symposium, Rice University <i>Applications of Donaldson's Diagonalization Theorem</i> Georgia Tech REU Poster Session, Georgia Institute of Technology <i>Image-based diagnosis of Chiari Malformation</i> Georgia Scientific Computing Symposium, Georgia Institute of Technology <i>Image-based diagnosis of Chiari Malformation</i> Emory REU/RET Poster Session, Emory University <i>Dependency Slogger</i> Undergraduate Research Symposium, University of Utah	July 2025  May 2023  Oct 2022  July 2022  Feb 2022  July 2021  April 2021
TEACHING EXPERIENCE	<b>Math 100A - Intermediate Algebra</b> , Associate Convener, Instructor of Record <b>Math 203 - Contemporary Mathematics</b> , Instructor of Record <b>Math 101 - College Algebra</b> , Instructor of Record <b>Math 106 - Calculus 1</b> , Teaching Assistant <b>Math 106 - Calculus 1</b> , Teaching Assistant	Fall 2025 Spring 2025 Fall 2024 Spring 2024 Fall 2023
HONORS	Utah Flagship Scholarship Tom and Cathy Saxton Math Scholarship David E. & Carol C. Salisbury Legacy Endowed Engineering Scholarship Golden Math Scholarship Paul G. & Alison R. Mayfield Engineering Undergraduate Scholarship Calvin H. Wilcox Memorial Math Scholarship Joseph Hyde Merrill Engineering Scholarship College of Science Freshman Scholarship	2019 – 2023 2022 2022 2021 2021 2020 2020 2019

CONFERENCES	<i>Summer Commutative Algebra Market Preparation workshop</i> in Lincoln, NE	Aug 2025
	<i>Séminaire de Mathématiques Supérieures (SMS)</i> in Toronto, Canada (remote)	June 2025
	<i>Upcoming Researchers in Commutative Algebra (URiCA)</i> in Lincoln, NE	May 2025
	<i>Gulf Coast Undergraduate Research Symposium</i> in Houston, TE	Oct 2022
	<i>Georgia Scientific Computing Symposium</i> in Atlanta, GA	Feb 2022
	<i>Undergraduate Research Symposium</i> in Salt Lake City, UT	April 2021